Decision Support Briefing

Issued: 12:00 PM ET Sunday, June 18, 2023

- Moderate to locally heavy rain associated with a stalled out frontal boundary is expected over the southeast US over the next week.
- Accumulations of 2 to 7 inches of rain are forecast during the coming week
- The timing, location, and intensity of rain will dictate whether forecast points will rise above flood stage.
- Current forecasts only indicate 3 points headed to flood stage
- A lot of uncertainty as rainfall forecasts have changed a little bit each day…so please check back often for updates to forecasts that could impact communities in your area.

14 – Day Precipitation and Dep from normal

Ending at 7 am this morning

Southeast River Forecast Center

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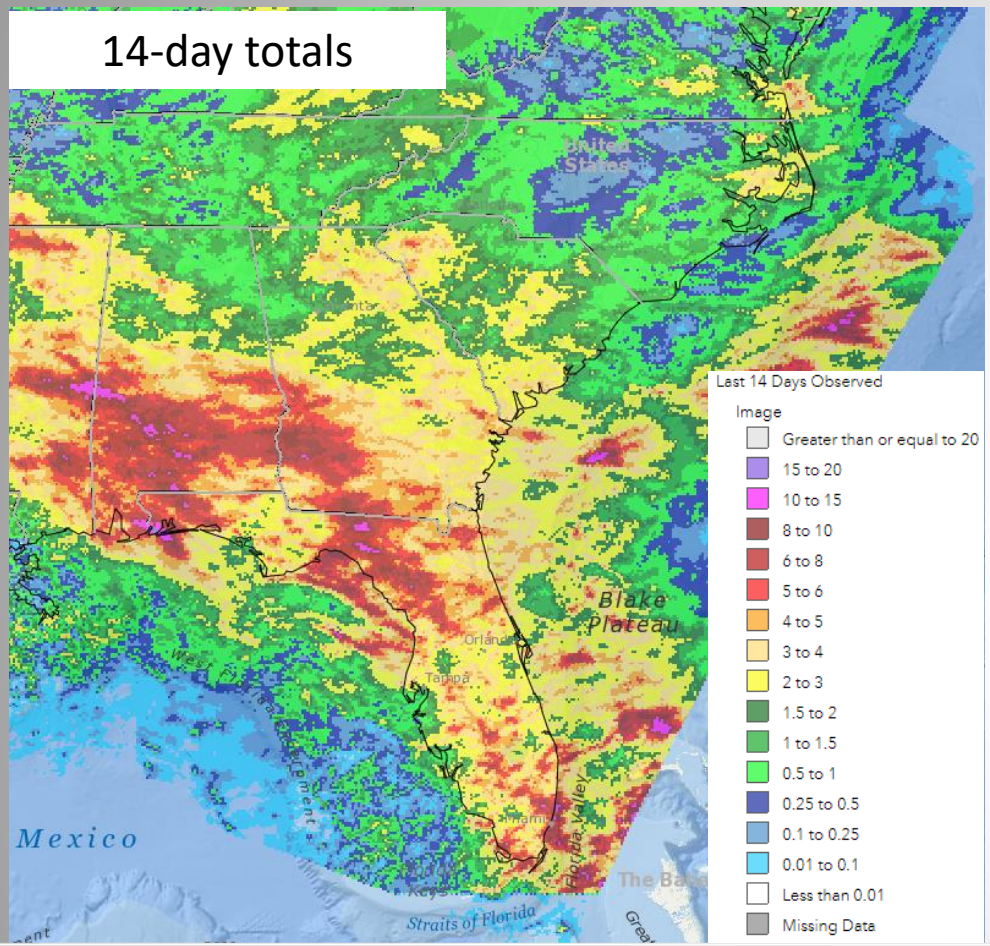
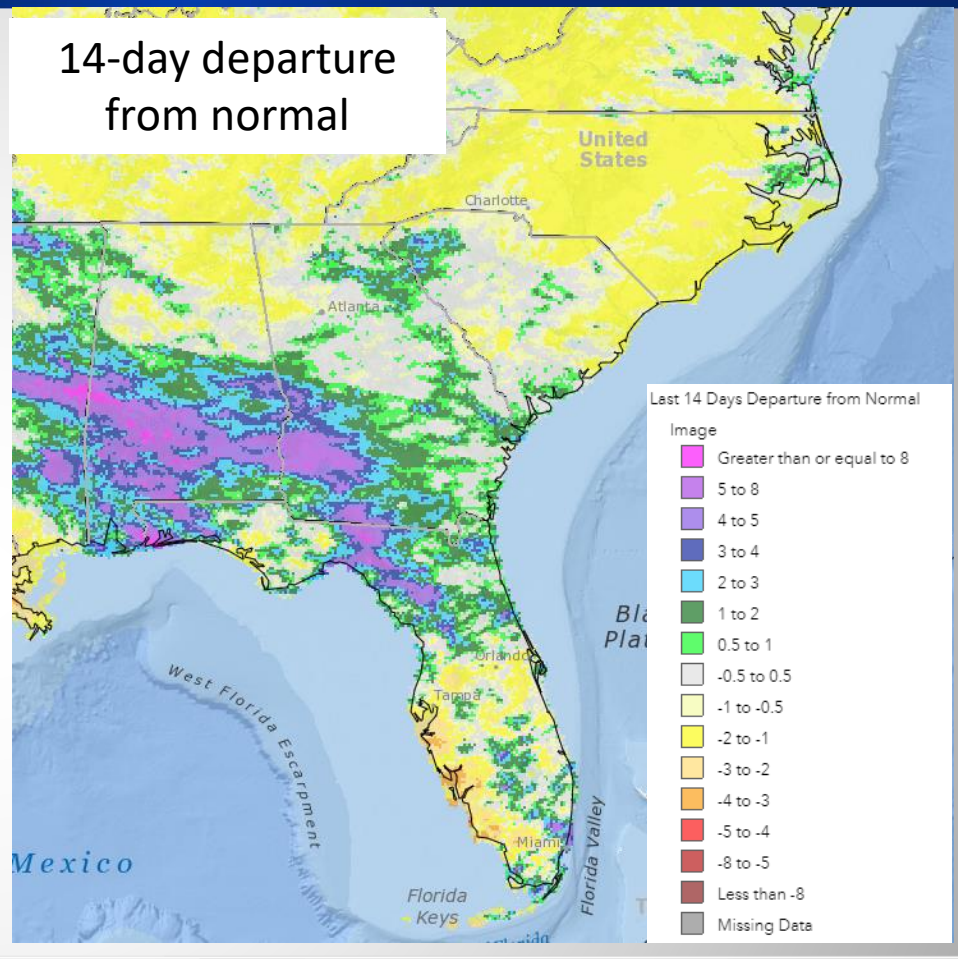
14-day totals

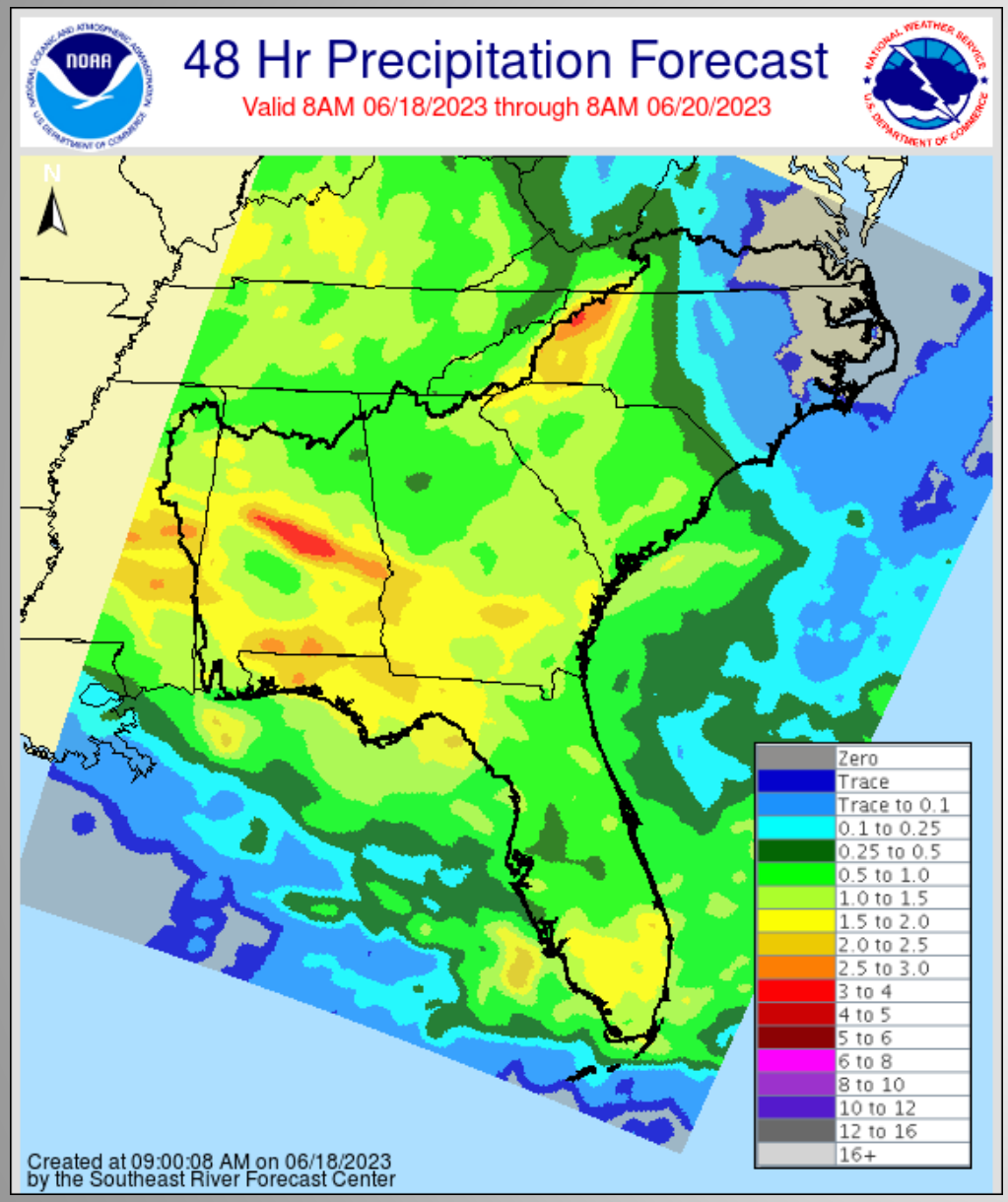


14-day departure from normal



Rain has been above normal in many parts of the southeast US over the last 2 weeks. We have also had some areas of below normal. The threshold for getting runoff into streams from rainfall is high during this time of year. Even with above normal rain, there has been very little flooding.

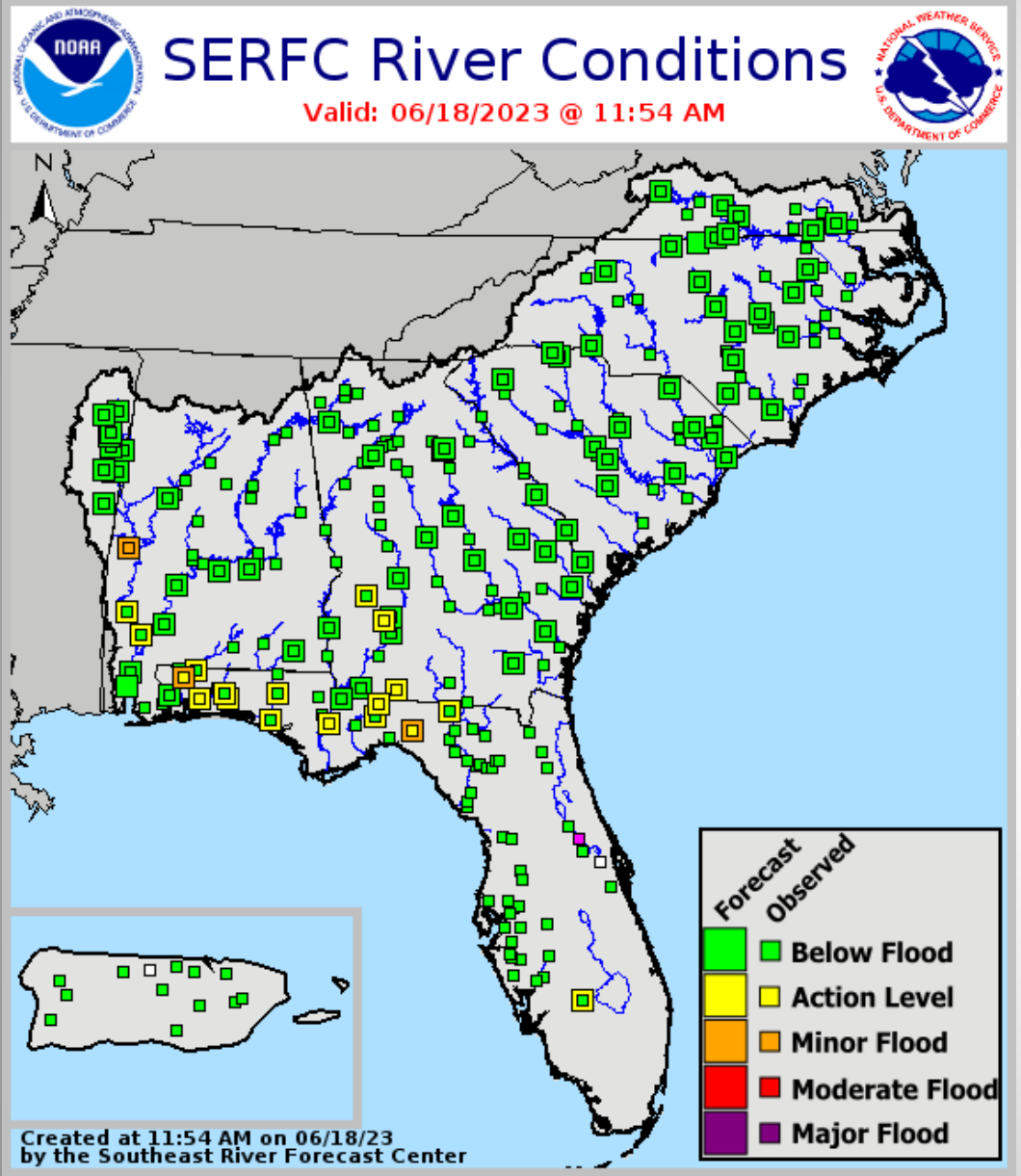
48-hour Precipitation Forecast



Here is the 48-hour rainfall forecast that was included in our river models this morning.

Areas along the Appalachians in North Carolina and some areas in Alabama and the Florida panhandle have especially high rainfall forecasts.

SERFC River Conditions



Here are the river forecasts issued this morning that include a 48-hour rainfall forecast.

Each day we add a few action stage forecasts to the map as persistent rains continue.

If this pattern continues, we could have many more points in action and flood stage by the end of the week.

Forecast Weather Conditions

Rainfall for the rest of the week.

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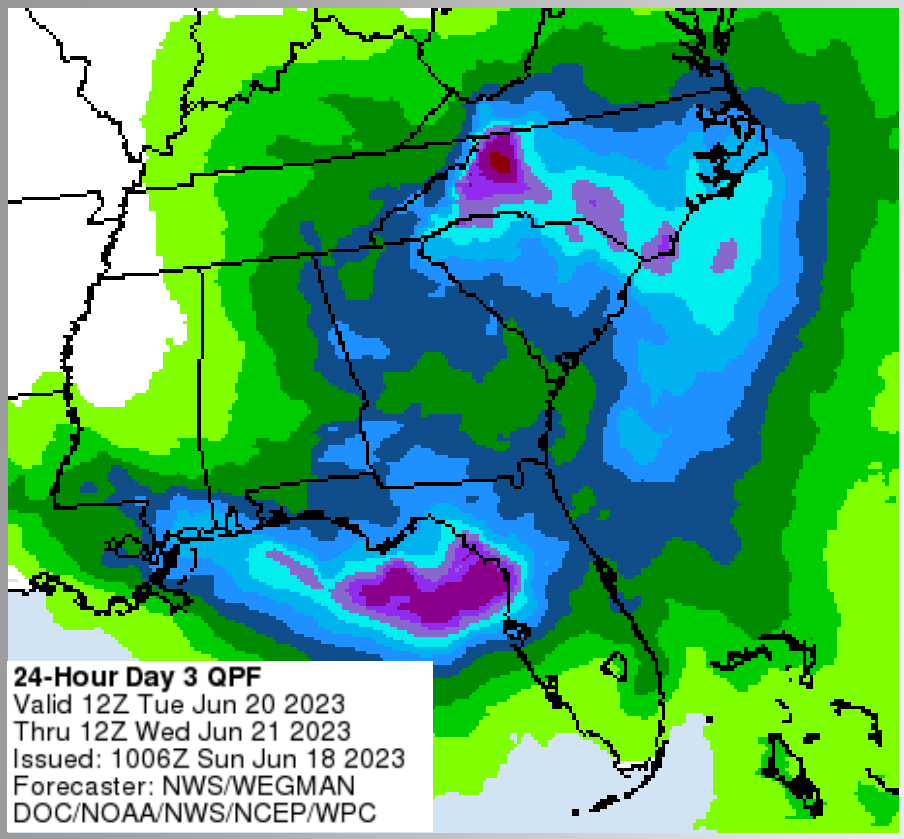

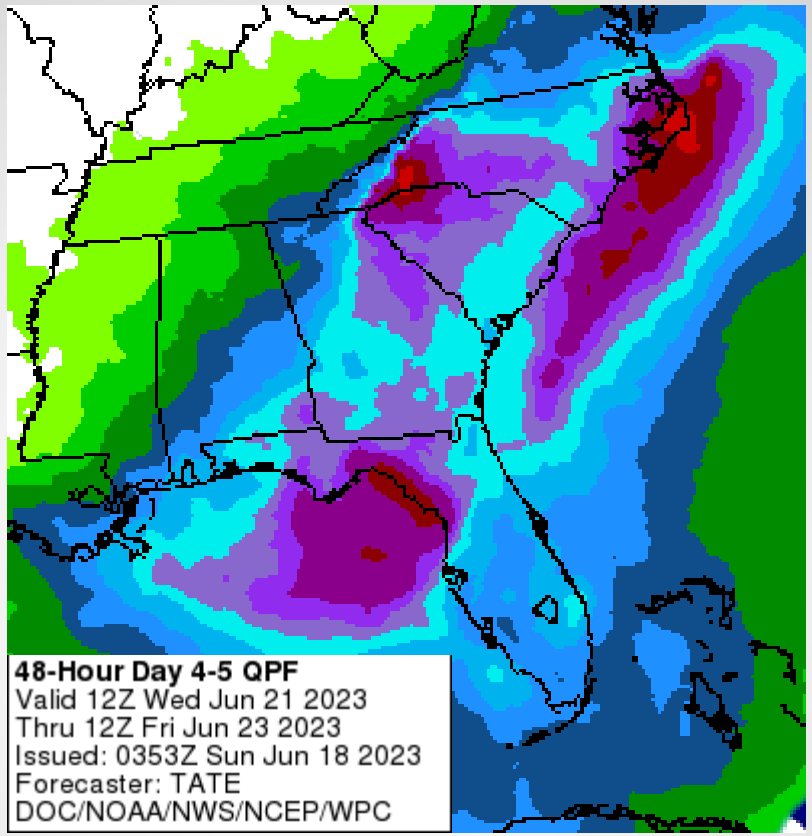

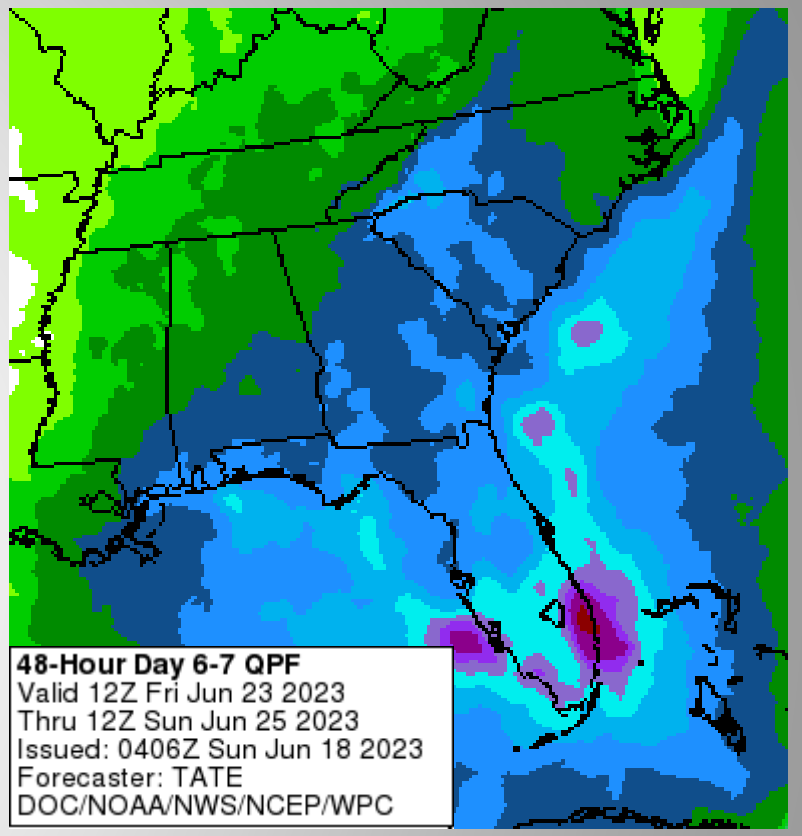

A stalled out frontal boundary will linger across the Southeast for the whole week. This, combined with plenty of moist air coming off of the Gulf of Mexico, will result in generally showery conditions. Each day of persistent rain adds more water to the ground and increases the potential to get flooding.

Meteorological Model Ensemble Forecast

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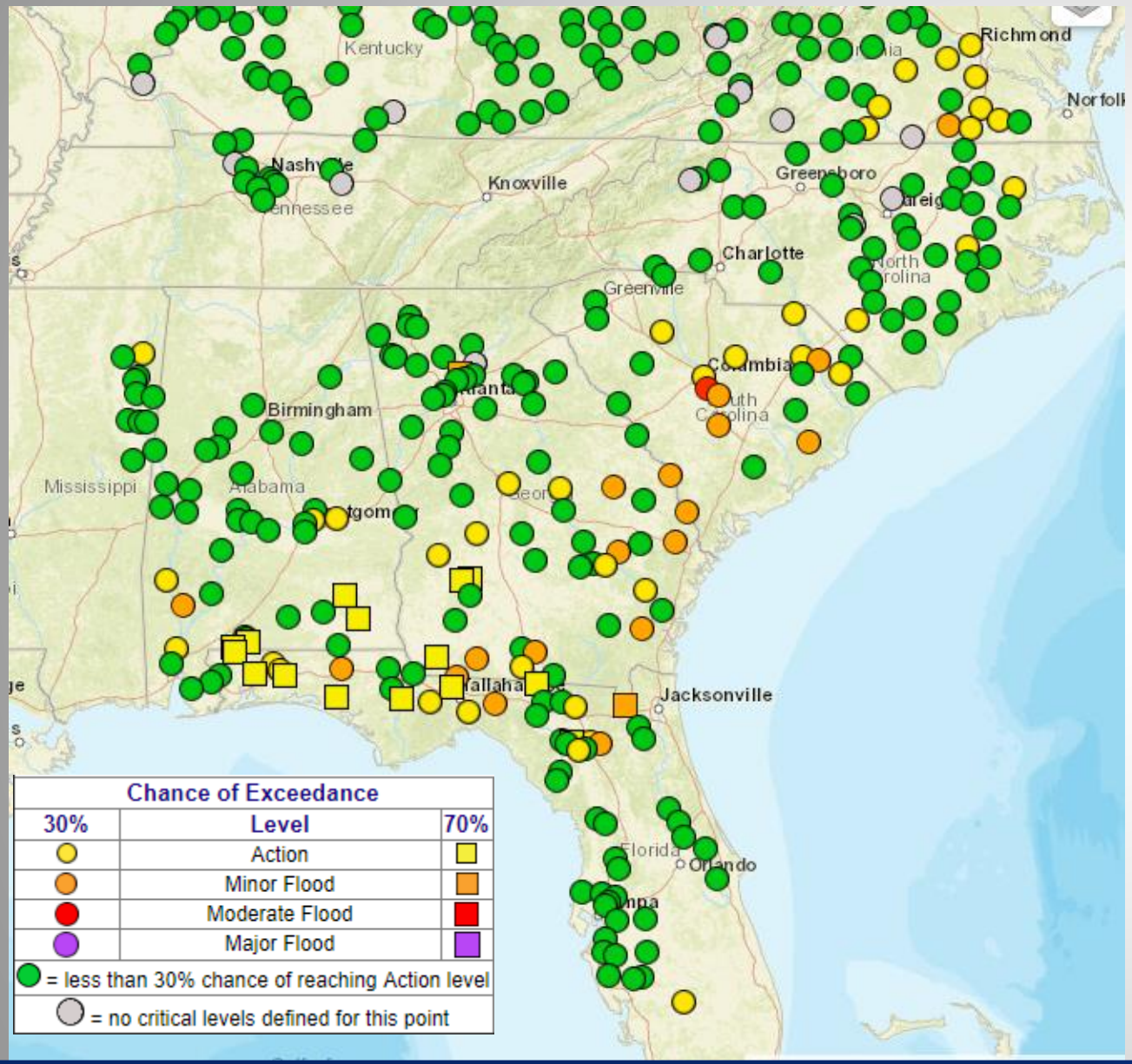

The Meteorological Model Ensemble Forecast System (MMEFS), to the left, is using the NAEFS model and addresses uncertainty in the longer lead rainfall forecast that helps to provide a confidence level for potential flooding. The NAEFS runs in our model every 12 hours.

With all of the uncertainty in the rainfall this week, this tool is helpful in determining where problems may crop up.

To take a closer look, here is the link to more detailed information:
https://www.weather.gov/erh/mmefs

SERFC Operational Status

Normal Operating Hours

Southeast River Forecast Center

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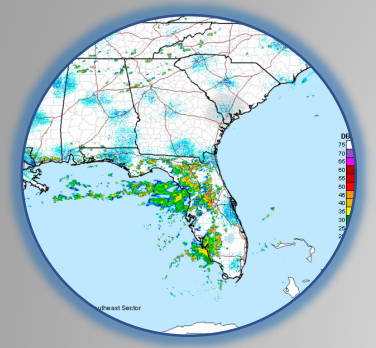
- SERFC will remain on normal operations but could transition to extended hours this week. Please contact us if you have any questions or concerns.
- This will be our only Daily Support Briefing message unless we begin to add numerous flood forecasts in the area.

Latest River Stages and Forecasts are available…click here!

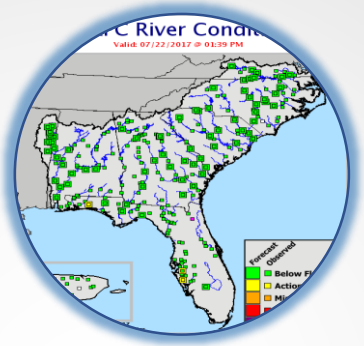
Please send all operational correspondence to sr-alr.rivers@noaa.gov or call the office directly.

Important links

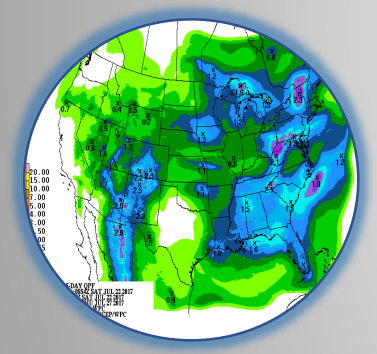
Decision Support Briefing.



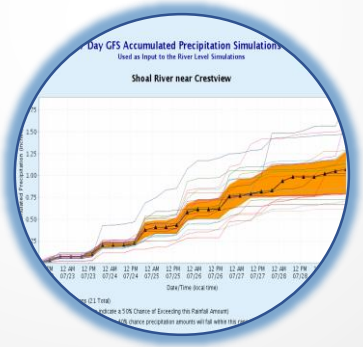
[Latest Radar]



[SERFC Quick Brief]



[Latest Forecast Rainfall]



[MMEFS – Ensemble River Forecasts]

- *The Decision Support Briefing will continue until further notice.*
- *These slides are intended for your use. Please feel free to share these with others. If you have any questions please email sr-alr.rivers@noaa.gov or contact your local NWS Weather Forecast Office.*
- *Remember: SERFC briefings cover freshwater flooding. For information on coastal and tidal flooding, flash floods, winds, and severe weather risks, please contact your local Weather Forecast Office.*